

**Generalized Intelligent Framework for Tutoring**

**Course Technical Details**

**Logic Puzzle Tutorial**

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# Overview

This document describes the technical details specific to the “Logic Puzzle Tutorial” named domain content. It is meant to help GIFT course authors find examples of implementations GIFT supports in order to help facilitate re-use and quicker understanding of supported features. Basically what can GIFT do and how can you create similar course elements of your own.

For more details on what the user should see in this course refer to the test procedures for the course (if available).

For more details on authoring in general, refer to the help documentation for GIFT available in the “docs” folder of GIFT.

# Course Content

The purpose of this course is to guide participants through a structured experiment that includes established surveys, interactive PowerPoint shows (Tutorial and additional Puzzle), and survey questions specific to the Tutorial. No active assessment or adaptation occurs during this course.

The content of this course, and experiment were developed by Dr. Anne Sinatra as part of a Post Doctoral Fellowship with U.S. Army Research Lab/Oak Ridge Associated Universities.

The Domain Folder for this course includes:

* **PowerPoint Shows** – Both a Tutorial and additional Puzzle PowerPoint show are included.
* **Excel files** – *NOTE: For the GIFT 2015-1 and 2015-2X releases, the write to excel functionality has been removed, however, it is expected to return in future versions.* Two blank excel files (Results.xlsx & Tutorial.xlsx) should remain in the folder with the PowerPoint shows. After participation, the data will be written to these files.
* **Answer key** – A .PDF file that includes the answers to the included survey questions about the tutorial, applied clue questions, and additional puzzle, which were created by Dr. Sinatra.

This course utilizes the following important features:

* **Guidance –** there are several uses of this in the form of presenting an HTML formatted message to the user.
* **Present Survey** – there are several uses of this to present GIFT surveys referenced by the “GIFT key” and “Survey Context” id (11). The GIFT surveys were authored using the Survey Authoring System (SAS). The surveys include established measures, such as the Computer Self-Efficacy Questionnaire (Compeau & Higgins, 1995), and the Need for Cognition Scale (Cacioppo, Petty & Kao, 1984). In addition, original questions based on the tutorial (content questions, and applied clue questions) were created by Dr. Sinatra for the specific study (Sinatra, 2013).
* **PowerPoint** – there are 2 instances in this course where a PowerPoint show file is presented as the Training Application. The first is the interactive Logic Grid Puzzle Tutorial, and the second is an additional Logic Grid Puzzle. Both PowerPoint files use the “simplest.dkf.xml”.
  + **simplest.dkf.xml** – this is the simplest DKF that can be authored as of now and is used in this course to fill the requirement of needing a DKF for, among other things, assessing.

# References

Cacioppo, J.T., Petty, R.E., & Kao, C. (1984). The efficient assessment of need for cognition. *Journal of Personality Assessment, 48* (3), 306 – 307.

Compeau, D.R., & Higgins, C.A. (1995). Computer self-efficacy: Development of a measure and initial test. *MIS quarterly*, 189 – 211.

Sinatra, A. M. (2013, July). Using GIFT to Support an Empirical Study on the Impact of the Self-Reference Effect on Learning. In *AIED 2013 Workshops Proceedings Volume 7* (p. 80).